Supporting Information for: Different Binding Orientations for the Same Agonist at Homologous Receptors: A Lock and Key or a Simple Wedge?

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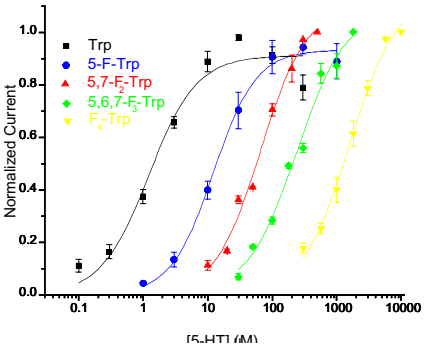
(a)



(b)

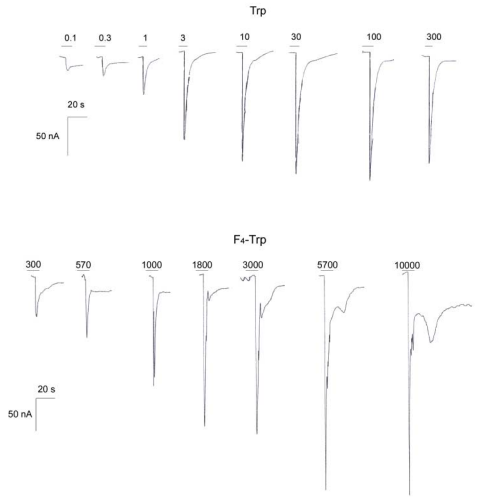


Figure A. Electrophysiological data at position 226 of MOD-1. (a) 5-HT dose-response curves. MOD-1 was suppressed with Trp, 5-F-Trp, 5,7-F_2-Trp, 5,6,7-F_3-Trp, and F_4-Trp, respectively at position 226. At least three oocytes were measured for each concentration. Error bars represent s.e.m. (b) Representative voltage-clamp current traces for oocytes expressing suppressed MOD-1. Bars represent application of 5-HT. The values on the bar are the concentrations of 5-HT in the unit of micromolar.

Table A. Mutations of Tyr 180 of MOD-1

Residue	**EC_{50} (μM)**	**Residue**	**EC_{50} (μM)**
Tyr (wt)	1.1 ±0.2	Phe	1.1±0.1
4-F-Phe	210±60	4-CH_3-Phe	90±9
4-Cl-Phe	200±50	4-MeO-Phe	320±180
4-Br-Phe	200±50	3,4,5-F_3-Phe	210±70
Trp	35±7	5-F-Trp	130±50